

**FORM PTO - 1449** 

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: CYC-046

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APPLICANT(S): Phelps et al.

SERIAL NO.: 09/974,722

RECEIVED

FILING DATE: October 9, 2001

FEB 2 N 2002

GROUP: 1711

TC 1700

#### U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
1/3	A1	6,297,330 B1	10/2/2001	Burch, Jr. et al.	525	444	
10	A2	6,121,466	09/19/2000	Osterholt et al.	549	267	
T	A3	5,968,642	10/19/1999	Saito	428	304.4	
	A4	5,936,029	08/10/1999	Hall	524	572	
	A5	5,830,541	11/03/1998	Carswell et al.	427	475	
	A6	5,795,423	8/18/98	Johnson	156	166	
	A7	5,786,440	7/28/98	Kohler et al.	528	196	,
	A8	5,760,161	6/2/98	Goins, Jr. et al	528	299	
	A9	5,756,644	5/26/98	Hodge et al.	528	272	
	A10	5,710,086	01/20/98	Brunelle et al.	502	171	
	A11	5,707,439	01/13/98	Takekoshi et al.	106	483	
	A12	5,700,888	12/23/1997	Hall	526	190	
	A13	5,693,722	12/2/97	Priddy, Jr. et al.	525	439	
	A14	5,668,186	9/16/97	Brunelle et al.	521	48	
	A15	5,663,282	9/2/97	Todt et al.	528	274	
	A16	5,661,214	8/26/97	Brunelle et al.	524	783	
	A17	5,648,454	7/15/97	Brunelle	528	491	
1	A18	5,646,306	07/08/1997	Elsasser, Jr.	549	267	
	A19	5,637,655	6/10/97	Priddy, Jr. et al.	525	438	
13	A20	5,605,979	2/25/97	Priddy, Jr. et al.	525	439	
1175	A21	5,591,800	01/7/97	Takekoshi et al.	524	783	
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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE II APPROPRIATE
1/2	A22	5,530,052	6/25/96	Takekoshi et al.	524	447	
7	A23	5,527,976	6/18/96	Takekoshi et al.	585	16	
	A24	5,498,651	3/12/96	Brunelle	524	176	
	A25	5,466,744	11/14/95	Evans et al.	524	714	
	A26	5,446,122	8/29/95	Warner et al.	528	279	
	A27	5,434,244	7/18/95	Warner et al.	528	490	
	A28	5,420,226	5/30/95	Hamer et al.	528	201	
	A29	5,410,014	4/25/95	Haese et al.	528	196	
	A30	5,407,984	4/18/95	Brunelle et al.	524	178	
	A31	5,389,719	2/14/95	Takekoshi et al.	524	784	
	A32	5,387,666	2/7/95	Takekoshi et al.	528	283	
	A33	5,386,037	01/31/95	Takekoshi et al.	549	206	
	A34	5,356,984	10/18/94	Carbone et al.	524	431	
	A35	5,348,985	9/20/94	Pearce et al.	521	124	
	A36	5,340,909	8/23/94	Doerr et al.	528	276	
	A37	5,321,117	6/14/94	Brunelle	528	272	
	A38	5,314,779	5/24/94	Odell et al.	430	127	
1	A39	5,302,484	4/12/94	Odell et al.	430	127	
	A40	5,300,590	4/5/94	Cook et al.	525	444	_
	A41	5,300,393	4/5/94	Odell et al.	430	134	
	A42	5,300,392	4/5/94	Odell et al.	430	130	
7 T	A43	5,288,837	2/22/94	Munjal et al.	528	198	

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ADEM EXAM NIT.			DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE II APPROPRIATE
	3	A44	5,281,669	01/25/94	Kambour et al.	525	177	
		A45	5,264,548	11/23/93	Brunelle et al.	528	370	
		A46	5,241,880	09/07/1993	Mizobata et al.	74	502.5	
		A47	5,231,161	7/27/93	Brunelle et al.	528	272	
		A48	5,225,129	7/6/93	van den Berg	264	85	
		A49	5,214,158	5/25/93	Brunelle et al.	549	267	
		A50	5,207,850	5/4/93	Parekh	156	166	
	T	A51	5,191,038	3/2/93	Krabbenhoft et al.	525	462	
	T	A52	5,191,013	3/2/93	Cook et al.	524	601	
	T	A53	5,116,900	5/26/92	Flautt et al.	524	377	
	1	A54	5,097,008	3/17/92	Krabbenhoft et al.	528	371	
		A55	5,095,088	3/10/92	Wang	528	203	
		A56	5,071,711	12/10/1991	Heck et al.	428	542.8	
-		A57	5,039,783	8/13/91	Brunelle et al.	528	272	
		A58	5,023,346	6/11/91	Schon et al.	549	231	
		A59	5,006,637	4/9/91	Guggenheim et al.	528	355	
		A60	4,999,420	3/12/91	Leitz et al.	528	371	
	7	A61	4,992,228	02/12/1991	Heck et al.	264	135	
	1	A62	4,980,453	12/25/1990	Brunelle et al.	528	352	
	1	A63	4,904,810	2/27/90	Brunelle et al.	558	281	
	T	A64	4,888,411	12/19/89	Shannon et al.	528	199	
		A65	4,831,001	5/16/89	Evans et al.	502	153	
		A66	4,829,144	5/9/89	Brunelle et al.	528	176	
		A67	4,816,548	3/28/89	Evans et al.	528	370	
$\neg$		A68	4,757,132	7/12/88	Brunelle et al.	528	357	
(1	3	A69	4,740,583	4/26/88	Brunelle et al.	528	370	





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& DRADE			U.S.	PATENT I	OOCUMI	ENTS				
EXAM. INIT.		DOCUMENT DATE NUMBER		NAME		CLASS			ILING DATE IF PPROPRIATE	
7R3	A70	4,727,134	2/23/88	Brunelle e	t al.		528	371		
11	A71	4,644,053	2/17/87	Brunelle e	t al.		528	371		
	A72	4,638,077	01/20/87	Brunelle e	t al.		558	281		<del></del>
	A73	4,616,077	10/7/86	Silva			528	371		
	A74	4,605,731	8/12/86	Evans et al	l.		528	371		
	A75	3,786,067	01/15/1974	Throckmon	rton et al.		260	327		
	A76	3,018,272	01/23/1962	Griffing et	Griffing et al.			75		
13	A77	Re. 34,431	11/02/1993	Brunelle e	t al.		528	352		
			FOREIC	ON PATEN	T DOCU	MENTS			•	
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTR Y CODE	CLASS	SUB CLASS	FILING DATE	ABSTRA ONLY	ACT	ENGLISH LANG Y/N
13	<b>B</b> 1	676324	06/16/1966	BE				No		No
	B2	4034574 A1	5/7/1992	DE				No		No
	В3	3607627 A1	9/10/1987	DE				No		No
	B4	991,020	5/5/1965	GB				No		Yes
	B5	957,841	5/13/1964	GB	.,			No		Yes
	В6	699701 A3	9/18/1996	EP				Yes		Yes
	B7	688778 A1	12/27/1995	ЕР				No		Yes
	B8	655476 A1	05/31/1995	ЕР				No		Yes
	В9	635512 A1	01/25/1995	EP				No		Yes
	B10	601753 A1	06/15/1994	EP				No		Yes
	B11	598604 A1	5/25/1994	EP				No	-	Yes
1	B12	589640 A1	03/30/1994	EP				No		Yes
	B13	543492 A1	05/26/1993	EP				No		Yes
	B14	486832 A2	05/27/1992	EP	-			No		Yes
P	B15	436186 B1	10/25/1995	EP	-			No		No
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CAM. IT.		DOCUMENT NUMBER	DATE	COUNTR Y CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/I
1PC	B16	419254 A2	3/27/1991	ЕР				No	Yes
1	B17	264835 B1	6/24/1992	EP	,			No	Yes
	B18	235741 B1	01/20/1993	ЕР			-	No	No
1	B19	0000544 B1	8/4/1982	EP				No	Yes
	B20	2001031846	02/06/2001	JP				Yes	Yes
	B21	09048876	2/18/1997	JP				Yes	Yes
	B22	6275547	4/7/1987	JP				Yes	Yes
-	B23	4621873	06/21/1971	JP				No	Yes
	B24	02298512	12/10/1990	JР				Yes	Yes
P	B25	476425	10/04/1972	JP				No	No (only abstract in English)
73	B26	95/30702	11/16/1995	wo	*			No	Yes
75	B27	93/04106	03/04/1993	wo				No	Yes
B	B28	91/09899	07/11/1991	wo				No	No (only abstract in English)
73	B29	88/06605	09/07/1988	wo				No	Yes
13	B30	00/27632	05/18/2000	wo				No	Yes
13	B31	1077893	03/7/1984	SU				Yes	Yes
			OTHER AR	T, JOURN	AL ARTI	CLES, E	TC.		<u>.</u>
KAM. IT.	ОТН	ER DOCUMEN	TS: (Including	Author, Title	e, Date, Rel	levant Pag	es, Place of	Publication)	
B	C1	Ahjopalo, L. et	al. (2000) "Cyc	lic Oligomers	in Saturated	i Polyester	s" Polymer,	Vol. 41, No. 23	3, 8283-8290
2	C2		) "Macrocycles	For The Synth hesis: Volume					7-235, ch. 6

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ADEMA		GROUP: 1711						
		OTHER ART, JOURNAL ARTICLES, ETC. TC 1700						
EXAM. C	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							
M3 "	C3 Brunelle <i>et al.</i> (1998) "Semicrystalline Polymers via Ring-Opening Polymerization: Preparation and Polymerization of Alkylene Phthalate Cyclic Oligomers" <i>Macromolecules</i> Vol. 31, 4782-4790.							
	C4	Burch, R. R. et al. (2000) "Synthesis of Cyclic Oligoesters and Their Rapid Polymerization to High Molecular Weight" Macromolecules, Vol. 33, No. 14, 5053-5064.						
	C5	Cotton, N. J. et al. (1993) "Rate and Extent of Supercritical Fluid Extraction of Cyclic Trimer from Poly(Ethylene Terephthalate) at Elevated Temperatures" <i>Journal of Chromatographic Science</i> , Vol. 31, No. 5, 157-161.						
(	C6	Hamilton et al. (1998) "Cyclic Polyesters: Part 8. Preparation and Characterization of Cyclic Oligomers in Six Aromatic Ester and Ether-Ester Systems" <i>Polymer</i> Vol. 39, No. 14., 3241-3252.						
	C <b>7</b>	Harrison, A. G. et al. (1997) "Analysis of cyclic oligomers of poly(ethylene terephthalate) by liquid chromatography/mass spectrometry" Polymer Communications, Vol. 38, No. 10, 2549-2555.						
	C8	Henshaw et al. (1994) "Recycling of a Cyclic Thermoplastic Composite Material by Injection and Compression Molding" J. of Thermoplastic Composite Materials Vol. 7 (1), 14-29.						
	C9	Hubbard, P. A. (1996) "Polyesters via Macrocyclic Oligomers" Dissertation presented at the University of Akron.						
	C10	Kricheldorf, H. R. et al. (1997) "Macrocycles IV. Macrocyclic Polylactones as Bifunctional Monomers for Polycondensations" <i>Journal of Polymer Science</i> , Vol. 36, No. 9, 1373-1378.						
	C11	Kricheldorf, H. R. et al. (1998) "Macrocycles. 3. Telechelic Polylactones via Macrocyclic Polymerization" Macromolecules, Vol. 31, No. 3, 614-620.						
(	C12	Lattimer et al. (1998) "MALDI-MS Analysis of Pyrolysis Products From a Segmented Polyurethane" Journal of Analytical and Applied Pyrolysis, Vol. 48, 1-15.						
	C13	Liu et al. (1999) "Preparation of Cyclic Polyester Oligomers and Ultra-low VOC Polyester Coatings" Polymer Preprints, Vol. 40, No. 1.						
	C14	Martin et al. (1987) "Pultrusion", Engineered Materials Handbook: Vol. 1 Composites, pp. 533-543.						
	C15	Miller, S. (1998) "Macrocyclic polymers from cyclic oligomers of poly(butylene terephthalate)" Dissertation Presented at University of Massachusetts, Amherst, MA US.						
	C16	Mueller, F. J. et al. (1983) "Synthesis of Cyclic Oligomers of Butylene Terephthalate" <i>Makromol. Chem.</i> , Vol. 184, No. 12, 2487-95.						
	C17	Mueller, F. J. et al. (1983) "Synthesis of Cyclic Oligomers of Butylene Terephthalate" <i>Makromol. Chem.</i> , Vol. 184, No. 12, 2487-95. (Translation)						
130	C18	Perovic, A. (1985) "Morphological Instability of poly(ethylene terephthalate) cyclic oligomer crystals"  Journal of Material Science, Vol. 20, Iss. 4, 1370-1374.						
EXAMINER	. '	DATE CONSIDERED 4 D. 21, 2000						

ATTORNEY DOCKET NO.: CYC-046 FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT APPLICANT(S): Phelps et al. SERIAL NO.: 09/974,722 RECEIVED FILING DATE: October 9, 2001 FEB 2 n 2002 GROUP: 1711 OTHER ART, JOURNAL ARTICLES, ETC. TC 1700 EXAM. OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) INIT. Perovie et al. (1982) "Crystallization of Cyclic Oligomers in Commercial Poly(ethleneterephthalate) Films" C19 Polymer Bulletin Vol. 6, 277-283. Roelens, S. (1988) "Organotin-Mediated Synthesis of Macrocyclic Polyesters: Mechanism and Selectivity in C20 the Reaction of Dioxastannolanes with Diacyl Dichlorides" Journal of the Chemical Society, Perkin Transactions 2, Vol. 8, 1617-1625. DATE CONSIDERED 2239910

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	STATEMENT E CO. 30 2002						SERIAL NO.: 09/974,722  FILING DATE: October 9, 2001  GROUP: 1711					
	& TRA	DEMAR	U.	S. PATENT	DOCUM	ENTS						
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1/3	A87	4,590,259	5/20/86	Kosky et a	al.		528	272		· · · · · · · · · · · · · · · · · · ·		
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EXAM. INIT.			DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY		ENGLISH LANG Y/N		
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